

COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-65. (Cancelled)

66. (Currently Amended) A networked electronic ordnance system, comprising:
a plurality of pyrotechnic devices connected by a network, each pyrotechnic device comprising an initiator and a logic device associated with a unique identifier;
a bus controller connected to said plurality of pyrotechnic devices through said network, said bus controller being ~~operative~~ structured to ~~(1) first~~ transmit a digital arming command onto the network, the digital arming command using one or more of the unique identifiers, ~~(2) thereafter~~ alter an analog condition of the network to a firing condition; ~~and~~ ~~(3) thereafter~~ transmit a digital firing command onto the network, the digital firing command using one or more of the unique identifiers; and
~~wherein the logic device in each of the pyrotechnic devices is operative for being~~
structured to
~~storing~~ store activation energy in the associated pyrotechnic device if the digital arming command includes the unique identifier of the logic device; and
~~releasing~~ release the stored activation energy into the initiator of its associated pyrotechnic device only if both (1) the analog condition of the network has been modified to the firing condition and (2) the digital firing command includes the unique identifier of the logic device.

67. (Previously presented) The networked electronic ordnance system of claim 66, wherein the means for altering the analog condition of the network alters one or more of the following network conditions: voltage level, frequency, or modulation depth.

68-87. (Cancelled)

88. (Newly Presented) A networked electronic ordnance system, comprising:

a plurality of pyrotechnic devices connected by a network, each pyrotechnic device comprising an initiator and a logic device associated with a unique identifier;

a bus controller connected to said plurality of pyrotechnic devices through said network, said bus controller being structured to first transmit a digital arming command onto the network, the digital arming command using one or more of the unique identifiers, thereafter alter a frequency of the network to a firing condition, and thereafter transmit a digital firing command onto the network, the digital firing command using one or more of the unique identifiers; and

the logic device in each of the pyrotechnic devices being structured to

store activation energy in the associated pyrotechnic device if the digital arming command includes the unique identifier of the logic device; and

release the stored activation energy into the initiator of its associated pyrotechnic device only if both (1) the frequency of the network has been modified to the firing condition and (2) the digital firing command includes the unique identifier of the logic device.

89. (Newly Presented) A networked electronic ordnance system, comprising:

a plurality of pyrotechnic devices connected by a network, each pyrotechnic device comprising an initiator and a logic device associated with a unique identifier;

a bus controller connected to said plurality of pyrotechnic devices through said network, said bus controller being structured to first transmit a digital arming command onto the network, the digital arming command using one or more of the unique identifiers, thereafter alter a modulation depth of the network to a firing condition, and thereafter transmit a digital firing command onto the network, the digital firing command using one or more of the unique identifiers; and

the logic device in each of the pyrotechnic devices being structured to

store activation energy in the associated pyrotechnic device if the digital arming command includes the unique identifier of the logic device; and

release the stored activation energy into the initiator of its associated pyrotechnic device only if both (1) the modulation depth of the network has been modified to the firing condition and (2) the digital firing command includes the unique identifier of the logic device.

90. (Newly Presented) A networked electronic ordnance system, comprising:

a plurality of pyrotechnic devices connected by a network, each pyrotechnic device comprising an initiator and a logic device associated with a unique identifier;

a bus controller connected to said plurality of pyrotechnic devices through said network, said bus controller being structured to (1) transmit a digital arming command onto the network, the digital arming command using one or more of the unique

identifiers, (2) alter an analog condition of the network to a firing condition, and (3) transmit a digital firing command onto the network, the digital firing command using one or more of the unique identifiers; and

the logic device in each of the pyrotechnic devices being structured to

store activation energy in the associated pyrotechnic device if the digital arming command includes the unique identifier of the logic device;

release the stored activation energy into the initiator of its associated pyrotechnic device only if both (1) the analog condition of the network has been modified to the firing condition and (2) the digital firing command includes the unique identifier of the logic device; and

discharge the stored activation energy if a digital disarming command includes the unique identifier of the logic device.